

REMARKS

Applicant respectfully requests reconsideration and allowance in view of the foregoing amendments and following remarks. By this amendment, Applicant amends claims 1-20 and adds new claims 23-29. Following entry of the above amendments and additions, claims 1-29 will be pending in the application.

Applicant has voluntarily amended several of the claims for clarity, consistency, and other matters of form. In particular, commas have been replaced by semicolons, colons have been added where absent, and several articles changed (i.e., from 'a' to 'the') as appropriate. Applicant makes these changes in the interest of style and readability and not for purposes of patentability.

In the Office Action mailed July 8, 2002, the Examiner rejected claims 1-5, 7, 10, 12, and 14-21 under 35 U.S.C. §102(e) as allegedly being anticipated by U.S. Patent No. 5,926,208 to Noonan et al. ("Noonan"). Also in the Office Action, the Examiner rejected claims 6, 8, 9, 11, 13 and 22 under 35 U.S.C. §103(a) as allegedly being unpatentable over Noonan. Applicants respectfully traverse these rejections.

Claims Rejections under 35 U.S.C. §102(b)

The Examiner rejected claims 1-5, 7, 10, 12, and 14-21 as allegedly being anticipated by Noonan. Applicant traverses the rejections and has amended claims 1-5, 7, 10, 12, and 14-20 to even further clarify the invention.

Claim 1

Independent claim 1, as amended, recites a communications and data display system comprising that includes:

- a projection system including a projector high-speed radio frequency (RF) transceiver and a controller; and
- a first data appliance including a first high-speed RF transceiver, wherein:
 - the first high-speed RF transceiver transfers graphical data to the projector high-speed RF transceiver;
 - the projection system displays the graphical data; and

the transfer and the display of the graphical data is controlled by the controller using first control data.

Noonen does not disclose or suggest a communications and data display system as recited, having a projection system including a high-speed RF transceiver as required by amended independent claim 1.

In asserting anticipation of the invention as claimed in independent claim 1 as originally filed, the Examiner refers to Figures 1a and 2 of Noonen. Figure 1a of Noonen illustrates a computing system 1002 connected to a video camera 1000 by an interface line 1006. Figure 2 of Noonen shows the computing system 1002 connected to a communications link 1008 for transmitting and receive video images.

Noonen does not disclose or suggest the subject matter of amended independent claim 1 for the following reason. Noonen does not disclose including a high-speed radio frequency (RF) link between the video camera 1000 and the computing system 1002. Rather, Noonen connects the video camera 1000 to the computing system 1002 using the interface line 1006. In fact, in describing the interface line 1006, Noonen states it is "a low-bandwidth transmission line" (col. 4, lines 49 & 56-57) that is used "instead of a costly specialized interface" (col. 4, lines 44-45).

As described in Applicant's specification ("Specification") at page 5, last paragraph, Applicant's invention "provides for multiple high-speed RF links" between the projection system transceiver and each PDA in the multi-user meeting. Additionally, the Specification, at page 7, line 22, states that "[t]he present invention eliminates the need for a wired connection to the conferees" (i.e., between the projection system and each PDA in the multi-user meeting). Applicant's Specification provides support for the high-speed nature of the RF links in the paragraph beginning on the bottom of page 7 and ending on page 8.

In summary, for at least the reason presented above, Noonen does not disclose or suggest a communications and data display system as recited, having a projection system including a high-speed RF transceiver as required by amended independent claim 1. Accordingly, Applicant respectfully submits that amended independent claim 1 is allowable over the art of record.

Claims 2-5 and 7

Amended claims 2-5 and 7 all ultimately depend from amended independent claim 1. The allowability of claims 2-5 and 7 thus follows from the allowability of amended independent claim 1; as such, for at least this reason, claims 2-5 and 7 are allowable over the art of record.

Claim 10

Independent claim 10 has been amended to recite, *inter alia*, that the projection system and the first data appliance both include and transfer data with high-speed RF interfaces. For reasons similar to those stated with respect to amended independent claim 1, Noonan does not disclose or suggest a communications and data display system as recited, having a projection system including a high-speed RF interface as required by amended independent claim 10.

Accordingly, Applicant respectfully submits that amended independent claim 10 is allowable over the art of record.

Claim 12

Amended claim 12 ultimately depends from amended independent claim 10. The allowability of claim 12 thus follows from the allowability of amended independent claim 10; as such, for at least this reason, claim 12 is allowable over the art of record.

Claim 14

Independent claim 14 has also been amended to recite, *inter alia*, that the projection system and the first data appliance both include and transfer data with high-speed RF interfaces. For reasons similar to those stated with respect to amended independent claim 1, Noonan does not disclose or suggest a communications and data display system as recited, having a projection system including a high-speed RF transceiver as required by amended independent claim 14.

Accordingly, Applicant respectfully submits that amended independent claim 14 is allowable over the art of record.

Claim 15-21

Amended and non-amended claims 15-21 all ultimately depend from amended independent claim 14. The allowability of claims 15-21 thus follows from the allowability of

amended independent claim 14; as such, for at least this reason, claims 15-21 are allowable over the art of record.

Claim Rejections under 35 U.S.C. §103(a)

Claims 6, 8, 9, 11, 13 and 22 were claims 6, 8, 9, 11, 13 and 22 under 35 U.S.C. §103(a) as allegedly being unpatentable over Noonan. Applicant traverses the rejections and has amended claims 6, 8, 9, 11 and 13 to even further clarify the invention.

Claims 6, 8 and 9

Amended claims 6, 8 and 9 all ultimately depend from amended independent claim 1. The allowability of claims 6, 8 and 9 thus follows from the allowability of amended independent claim 1; as such, for at least this reason, claims 6, 8 and 9 are allowable over the art of record.

Claims 11 and 13

Amended claims 11 and 13 both ultimately depend from amended independent claim 10. The allowability of claims 11 and 13 thus follows from the allowability of amended independent claim 10; as such, for at least this reason, claims 11 and 13 are allowable over the art of record.

Claim 22

Non-amended claim 22 ultimately depends from amended independent claim 14. The allowability of claim 22 thus follows from the allowability of amended independent claim 14; as such, for at least this reason, claim 22 is allowable over the art of record.

Conclusion

In view of the foregoing, the claims are believed to be in form for allowance, and such action is hereby solicited. If any points remain in issue which the Examiner feels may be best resolved through a personal or telephone interview, he is kindly requested to contact the undersigned at the telephone number listed below.

Attached hereto is a marked-up version of the changes made to the claims by the current amendment. The attached Appendix is captioned "Version with markings to show changes made".

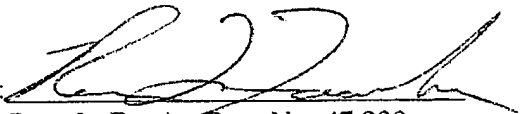
All objections and rejections having been addressed, it is respectfully submitted that the present application is in a condition of allowance and a Notice to that effect is earnestly solicited.

Charge Statement: The Commissioner is authorized to charge Deposit Account 03-3975 (Order No. 073169-0261847) for any fees associated with this Communication, including excess claims fees and/or extension fees.

Respectfully submitted,
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Appendix with Markings Showing Changes Made

IN THE CLAIMS:

1. (Amended) A communications and data display system comprising:
a projection system including a projector high-speed radio frequency (RF) transceiver
and a controller[,]; and
a first data appliance including a first high-speed RF transceiver, wherein:
the first high-speed RF transceiver[of the first data appliance] transfers
graphical data to the projector high-speed RF transceiver[of the
projection system,];
the projection system displays the graphical data[,]; and
the transfer and the display of the graphical data is controlled by the controller
using first control data.
2. (Amended) The communications and data display system of claim 1, further comprising:
a second data appliance including a second high-speed RF transceiver, wherein:
the first high-speed RF transceiver[of the first data appliance] transfers a first
signal to the projector high-speed RF transceiver[of the projection
system,];
the projector high-speed RF transceiver[of the projection system] transfers the
first signal to the second high-speed RF transceiver[of the second data
appliance,]; and
the transfer of the first signal from the first data appliance to the second data
appliance is controlled by the controller using second control data.
3. (Amended) The communications and data display system of claim 2, wherein:

the second high-speed RF transceiver[of the second data appliance] transfers a second signal to the projector high-speed RF transceiver[of the projection system,];
the projector high-speed RF transceiver[of the projection system] transfers the second signal to the first high-speed RF transceiver[, of the first data appliance]; and
the transfer of the second signal from the second data appliance to the first data appliance is controlled by the controller using the second control data.

4. (Amended) The communications and data display system of claim 1, wherein:
the projection system further comprises an interface to an external network[,];
the first high-speed RF transceiver[of the first data appliance] transfers a first signal to the projector high-speed RF transceiver[of the projection system,];
the projector high-speed RF transceiver[of the projection system] transfers the first signal to the external network[,]; and
the transfer of the first signal from the first data appliance to the external network is controlled by the controller using third control data.
5. (Amended) The communications and data display system of claim 4, wherein:
the external network transfers a second signal to the projector high-speed RF transceiver[,];
the projector high-speed RF transceiver transfers the second signal to the first high-speed RF transceiver[,]; and
the transfer of the second signal from the external network to the first data appliance is controlled by the controller using the third control data.
6. (Amended) The communications and data display system of claim 1, wherein:
the first data appliance further comprises a graphics chip, a processing unit, a memory and a MUX[,];

the processing unit takes keyboard input from a local keyboard[,];

the processing unit takes memory graphics input from the memory and provides processing-unit memory output to the memory[,];

the processing unit provides processing-unit graphics output to the graphics chip and to the MUX[,];

the processing unit provides processing-unit control output to the MUX;

the graphics chip provides graphics-chip output to a local display and to the MUX[,]; and

the MUX provides MUX output to the **[first-data-appliance]first high-speed RF** transceiver, the MUX output having a compression format selected from the group consisting of compressed and uncompressed.

7. **(Amended)** The communications and data display system of claim 1, wherein:
the projection system further comprises a graphics converter and a projector[,];
the graphics converter receives the graphical data from the **[projection-system]projector high-speed RF** transceiver and transfers uncompressed graphical data to the projector[,]; and
the projector displays the uncompressed graphical data.
8. **(Amended)** The communications and data display system of claim 7, wherein the graphics converter includes an application-aware graphics chip that transforms compressed graphics data to the uncompressed graphics data.
9. **(Amended)** The communications and data display system of claim 8, wherein:
the compressed graphical data includes compressed motion graphics or video data[,]; and
the uncompressed graphical data includes uncompressed motion graphics or video data.
10. **(Amended)** A communications and data display system comprising:

a projection system including a projector high-speed radio frequency (RF) receiver and a controller[,]; and

a first data appliance including a first high-speed RF transmitter, wherein:

the first high-speed RF transmitter[of the first data appliance] transfers graphical data to the projector high-speed RF receiver[of the projection system,];

the projection system displays the graphical data[,]; and

the transfer and the display of the graphical data is controlled by the controller using control data.

11. (Amended) The communications and data display system of claim 10, wherein:

the first data appliance further comprises a graphics chip, a processing unit, a memory and a MUX[,];

the processing unit takes keyboard input from a local keyboard[,];

the processing unit takes memory graphics input from the memory and provides processing-unit memory output to the memory[,];

the processing unit provides processing-unit graphics output to the graphics chip and the MUX[,];

the processing unit provides processing-unit control output to the MUX;

the graphics chip provides graphics-chip output to a local display and to the MUX[,]; and

the MUX provides MUX output to the [first-data-appliance transceiver]first high-speed RF transmitter, the MUX output having a compression format selected from the group consisting of compressed and uncompressed.

12. (Amended) The communications and data display system of claim 10, wherein:

the projection system further comprises a graphics converter and a projector[,];

the graphics converter receives the graphical data from the [projection-system transceiver]projector high-speed RF receiver and transfers uncompressed graphical data to the projector[,]; and

the projector displays the uncompressed graphical data.

13. (Amended) The communications and data display system of claim 12, wherein the graphics converter includes an application-aware graphics chip that transforms compressed graphics data to the uncompressed graphics data.

14. (Amended) A method for communication and data display, comprising:
transmitting graphical data from a first high-speed radio frequency (RF) transceiver of a first data appliance to a projector high-speed RF transceiver of a projection system[,];
displaying the graphical data with the projection system[,]; and
controlling the transmitting of the graphical data and the displaying of the graphical data with a controller using first control data.

15. (Amended) The method of claim 14, further comprising:
transmitting a first signal from the first high-speed RF transceiver[of the first data appliance] to the projector high-speed RF transceiver[of the projection system,];
transmitting the first signal from the projector high-speed RF transceiver[of the projection system] to a second high-speed RF transceiver of a second data appliance[,]; and
controlling the transmission of the first signal from the first data appliance to the second data appliance with the controller using second control data.

16. (Amended) The method of claim 15, further comprising:

transmitting a second signal from the second high-speed RF transceiver[of the second data appliance] to the projector high-speed RF transceiver[of the projection system,];

transmitting the second signal from the projector high-speed RF transceiver[of the projection system] to the second high-speed RF transceiver[of the second data appliance,]; and

controlling the transmission of the second signal from the second data appliance to the first data appliance with the controller using the second control data.

17. (Amended) The method of claim 14, further comprising:

transmitting a first signal from the first high-speed RF transceiver[of the first data appliance] to the projector high-speed RF transceiver[of the projection system,];

transmitting the first signal from the projector high-speed RF transceiver[of the projection system] to an external network, the projection system including an interface high-speed RF to the external network[,]; and

controlling the transmission of the first signal from the first data appliance to the external network with the controller using third control data.

18. (Amended) The method of claim 17, further comprising:

transmitting a second signal from the external network[transfers] to the projector high-speed RF transceiver[of the projection system,];

transmitting the second signal from the projector high-speed RF transceiver[of the projection system] to the first high-speed RF transceiver[of the first data appliance,]; and

controlling the transmission of the second signal from the external network to the first data appliance with the controller using the third control data.

19. (Amended) The method of claim 14, further comprising:

transmitting a keyboard input from a local keyboard to the first data appliance;
converting compressed graphical data to uncompressed graphical data at the first data
appliance; and
controlling a flow of uncompressed graphical data and compressed graphical data to the
first high-speed RF transceiver[of the first data appliance].

- 20 (Amended) The method of claim 19, wherein:
the compressed graphical data includes compressed motion graphics or video data[,]; and
the uncompressed graphical data includes uncompressed motion graphics or video data.